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the form of rules free from technical language, but it is doubtful whether any considerable number of society members will grasp the import of the proposed readjustment of fraternal insurance from the appendix on legislation. It is unfortunate that the proof reading was not more carefully done, misspelled words being apparent throughout, with some grammatical errors and meaningless sentences interspersed. This is inexcusable in a book selling at this price. The non-technical and concise presentation of the subject is to be highly commended, as well as the serviceable arrangement of case citations.

R. R.

MANUFACTURING INDUSTRY

WAGNER, FREDERICK H. *Coal and Coke*. Pp. xii, 431. Price, \$4.00. New York: McGraw-Hill Book Company, 1916.

Mr. Wagner's first object is to present data relating to the carbonization of coal, with special emphasis upon the production of coal gas. This naturally includes a technical study of the oxidation and spontaneous combustion of coal, the difference between coking and gas coals, the methods of analyzing coal, and the preparation and storage of coal. All of this leads finally to a discussion of carbonization, the various methods by which coke is made, and the ovens and other apparatus used in its production.

Apart from its value to the student of coal gas manufacture, this book undoubtedly contributes somewhat to the very scanty literature relating to the production and handling of coke, although it seems to be a compilation of the more recent literature on the subject. It is to be regretted that a much larger space has not been given to by-product coke, since public interest in it has been so keenly aroused during the past three years, and there is so little available literature pertaining to it.

Many excellent cuts and plates throughout the book offset, to a certain degree, the brief treatment of most of the topics. A close student in this field would find it necessary to consult the original sources from which the author, with the apparent idea of presenting primarily a review of each topic, has drawn. The limited list of references indicates the wide field open for careful comprehensive studies of this industry, from an economic as well as from a technical standpoint. As a whole this work, though inadequate, partially fills a great need for a reference book on coal gas manufacture and by-product coke.

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TRANSPORTATION

JACKMAN, W. T. *Transportation in Modern England*. 2 vols. Pp. xxii, 820. Price, \$7.25. New York: G. P. Putnam's Sons, 1916.

These two volumes cover the history of transportation in England from the end of the fifteenth century to 1850, there being an introductory chapter giving a sketch of road construction from the Roman occupation to the fifteenth century. The author's reasons for not bringing his work beyond 1850 (except as regards the history of canals) are that we are still too near the introduction of the bicycle, the